

Appl. No. 09/664,147  
Amdt. dated June 26, 2003  
Reply to Office Action of May 7, 2003

PATENT

REMARKS/ARGUMENTS

The present amendment is submitted in accordance with the Revised Amendment Format as set forth in the Notice provided on the USPTO web site for the Office of Patent Legal Administration; Pre-OG Notices, signed 1/31/03.

As requested by the Examiner, Applicants have rewritten the second paragraph at page 1, line 5 (page 2 above) to cross reference the related applications by their U. S. application numbers.

Applicants have corrected the Abstract (page 8 above) as requested by the Examiner.

Claims 1-4, 6-8, 10, 14, 15, 17, and 18 are rejected under 35 U.S.C. § 102(b) as being anticipated by Kangasharju et al.

Claims 5, 9, 11, 13, 16, 19, and 20 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Kangasharju et al. in view of Chase et al.

Claim 12 is rejected under 35 U.S.C. § 103(a) as being unpatentable over Kangasharju et al. in view of Tsigotis et al.

As amended, claim 1 provides a system for cataloging content object portions dispersed across a plurality of content exchanges. This system includes, *inter alia*, two or more content exchanges that each include a "plurality of content object portions." A server at the remote location includes subsets of the content object portions, and datalinks transport catalogs corresponding to the content object portions between the respective content exchanges and the server. Accessing a content object includes accessing one first content object portion from one set of content object portions, and accessing at least one other content object portion from another set of content object portions.

Of note, claim 1 provides for updating catalogs of *content object portions*. The specification discloses different embodiments for reporting status information from content exchanges. One of these embodiments involves reporting *content objects*, while another involves reporting *content object portions*. Each of the embodiments are distinct and different from the other.

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Content object portions are subsets of a larger content object. Where content object portions are used, as in claim 1, "a whole copy of the content object is assembled in the content store . . . if any portion of the content object is missing." Application at p. 22, ll. 28-30. "In an iterative manner, the missing portions are retrieved from each content exchange . . . [and if] no other content exchange . . . has the missing portion of the content object, a query is made to the origin server . . . for the missing portion." Id. at p. 23, ll. 1-4. "This process of searching for portions continues in an interactive manner until all missing portions are copied to the content store . . . Although this embodiment sequentially retrieves the missing portions, other embodiments could determine the location of the missing portions and retrieve them in parallel, in any order or in the order found." Id. at p. 23, ll. 10-14.

In stark contrast, Kangasharju et al. does not disclose any method for cataloging content object portions, or even disclose anything about content object portions. Rather, Kagasharju et al. discloses a process for caching popular objects, not portions thereof, on geographically dispersed servers in order to improve delay and bandwidth usage, and for updating a distributed database when one of the geographically dispersed servers stores or evicts a content object. See e.g., Kangasharju et al. at abstract.

An important feature of Kangasharju et al. is that "[a]t most two servers (including the origin server) are visited in the request chain . . . "Kangasharju et al. at p. 2, col. 1, ¶2. To do this, a request is received at a cache, and if the cache does not have the item requested, the request is satisfied by the origin server. In contrast, the system of claim 1 includes gathering content object portions from two or more content exchanges, not including the origin server. Thus, not only does Kangasharju et al. not teach use of content object portions, it actually teaches away.

Hence, applicant respectfully requests withdrawal of the rejection as to claim 1. Independent claims 8, 15 and 21 include somewhat similar limitations to that discussed above, and for at least this reason, applicant respectfully requests withdrawal of the rejections directed to those claims as well. Further, claims 2-6, 8-14 and 16-19 are dependent upon allowable independent claims and are for at least this reason also allowable.

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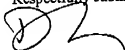
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CONCLUSION

In view of the foregoing, Applicants believe all claims now pending in this Application are in condition for allowance. The issuance of a formal Notice of Allowance at an early date is respectfully requested.

If the Examiner believes a telephone conference would expedite prosecution of this application, please telephone the undersigned at 303-571-4000.

Respectfully submitted,



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